NATIONAL REPORT

OF HYDROGRAPHIC SERVICE

OF THE RUSSIAN FEDERATION

NAVY

to the 16-th BALTIC SEA

HYDROGRAPHIC CONFERENCE

St Petersburg

2011

THE HYDROGRAPHIC SERVICE OF THE RUSSIAN FEDERATION NAVY

The Hydrographic Service is one of the important national bodies responsible for the safety of navigation.

Although the Hydrographic Service forms a part of the Navy, it also meets the requirement of merchant and fishing fleets and vessels of other ministries and agencies. The Hydrographic Service is under the direction of the Department of Navigation and Oceanography of the Russian Federation Ministry of Defense (DNO of the RF MD), which is traditionally located in St Petersburg.

The principle functions of the DNO of the RF MD are:

— to carry out oceanographic, hydrographic and geophysical surveys in the World Ocean

— to compile and produce Nautical Charts, Publications and Guides to Navigation

— to develop and produce Guides, Instructions, Regulations and Methodical Directions on carrying out the World Ocean surveys and processing of their results

— to equip the coast of the Russian Federation by aids to navigation

— to organize mariner notification about changes in navigational conditions and regime

— to develop up navigational instruments and complexes.

To carry out oceanographic surveys some special units have been created as a part of the Hydrographic Service of the Navy, such as expeditions and parties. The surveys are being run by oceanographic and hydrographic ships of up to 9000 tons displacement equipped with modern navigational and oceanographic facilities.

The results of oceanographic, hydrographic and geophysical surveys are submitted to the Navy Charts Division for compilation and updating of Nautical Charts and Guides to Navigation.

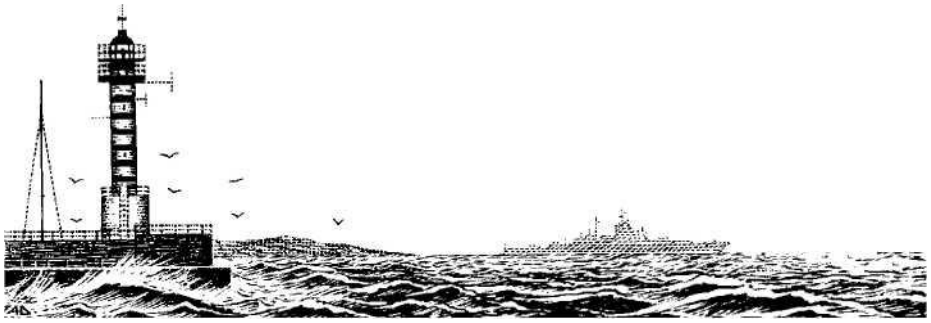
The Hydrographic Service of the Navy provides the operation of over 5000 aids to navigation.

The DNO of the RF MD guides the development of navigational and oceanographic facilities and fitting out with them the naval ships and vessels of other departments, arranges their operation and maintenance as well.

In special aspect the DNO of the RF MD has in its subordination the Hydrographic services of the Fleets. It has in direct subordination:

Lighthouse service of the RF, Navy Charts Division, Navy Centre for Automatic Acquisition and Processing of Operational Hydro meteorological Information, Long-Range Radio-navigation Centre and other units.

The DNO of the RF MD participates in realization of a series of regional projects of IOC UNESCO on charting of oceans. It is due to participation in these projects the DNO of the RF MD obtains new bathymetric data for the World Ocean and uses them for compilation of nautical charts and also takes into account advanced technologies and methods of charting used by leading countries in its work. Within the frameworks of Baltic Sea Hydrographic Commission (BSHC) the DNO of the RF MD actively participated in elaboration of agreed plan of systematically recurrent surveys of main navigable routes and ports of the Baltic Sea and the Gulf of Finland. Realization of this plan is performed within HELCOM project — Commission for the Protection of the Baltic Sea Area Environment.



SURVEY COVERAGE OF THE BALTIC SEA IN 2009-2011

Area of Activity	Kind of Activity	Scale	Year of
Gulf of Finland			
The area of Bol'shoy Kronshtadtskiy Roads	Sounding	1:5000	2009
Bol'shoy Koabel'niy Fairway from Ostrov Rodsher to Ostrov Gogland Luzhskiy-Zapadniy Fairway	Sounding, area survey	1:10000	2009
Severniy Kronshtadtskiy Fairway (from Sankt-Peterburgskiy Maritime Canal to C-2 and C-2 to Zapadniy Kronshtadtskiy Fairway)	Sounding, area survey	1:2000	2009
Water area of Marine Passenger Terminal on Vasil'evskiy Ostrov	Sounding, area survey	1:2000	2009
Water area of Marine Passenger Terminal on Vasil'evskiy Ostrov	Sounding, area survey	1:2000	2009
Gorskaya Base Canal, Severniy Kronshtadtskiy Fairway, anchorages Nos. 4Б and 4В	Sounding, area survey	1:2000	2008-2009
Proliv Syuvasalmi Water area of planned load transshipment near Mys Putevoy Section of recommended track in the area of Klyuchevoye	Sounding with bottom contour instrument appreciation by sidescan-sonar	1:500 1:1000 1:5000	2009
Southern approach channel to Port of Ust'-Luga and water area "Sever-1"	Sounding	1:2000	2009
Ust'-Luga maritime commercial port. Berths 3 and 4	Sounding	1:5000	2009
E Part of Gulf of Finland from Mys Kolganpya to Stirsudden Lighthouse	Sounding	1:25000	2009
Bukhta Dal'nyaya Water Area and Berth Approaches	Area survey	1:2000	2010
Area of Strel'na "Boat Naval Station for the Protection Directorate of the Federal Protective Service in the NW Federal District of Russia. Maritime Component"	Topographic survey	1:5000	2010
Luzhskaya Guba Operational Water Area, Approach Channels Spoil Ground No. 315 Estuarine Part of Reka Luga	Area survey	1:2000 1:5000 1:2000	2010
Bukhta Dal'nyaya (Poluostrov Konyok) Berth Water Area and its Approach Channel	Hydrographic sweeping	1:1000	2010
Port Water Area (berth Nos. 1 to 4) and Approach Channel in Vysotsk Maritime Port	Area survey	1:1000	2010
Water Areas of Vnutrenniy Vysotskiy Roads, Vyborgskiy Fairway (No. 6) and Deep Water Route (DW-2)	Sounding	1:2000	2010
Ust'-Luga Maritime Commercial Port Water Areas of Sever-2 and Southern Sections	Sounding	1:2000	2010
Crossing Area of Petrovskiy Canal and Sankt-Peterburgskiy Maritime Canal	Area Survey and	1:1000	2010
Material Offloading Facility for the construction of football stadium on Krestovskiy Ostrov	Topographic Survey	1:1000	2009

Southern Part of Baltic Sea			
Kaliningradskiy Maritime Canal Picket Section Nos. 191 to 206 (OOO “Lukoil-Kaliningradmorneft’”)	Area survey and sounding	1:2000	2010

In 2009-2011 Russian HO units were equipped with modern multichannel echo sounders, portable automatic mimeographs, high-precision sound velocity измеритель meters in water.

Distribution-Transshipment-Oil-Product Complex

SURVEY COVERAGE ON STANDARD S-55

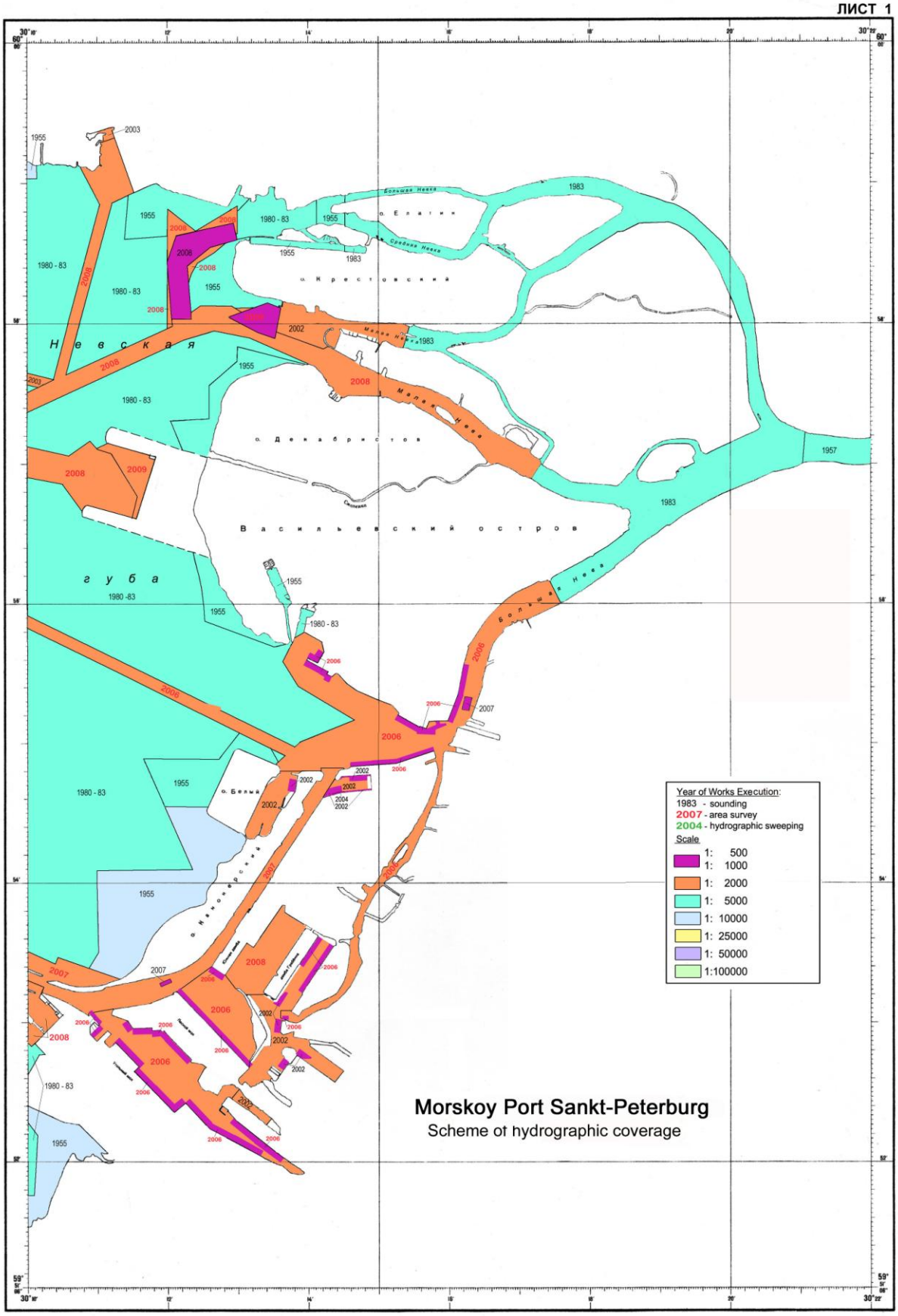
Baltic Sea

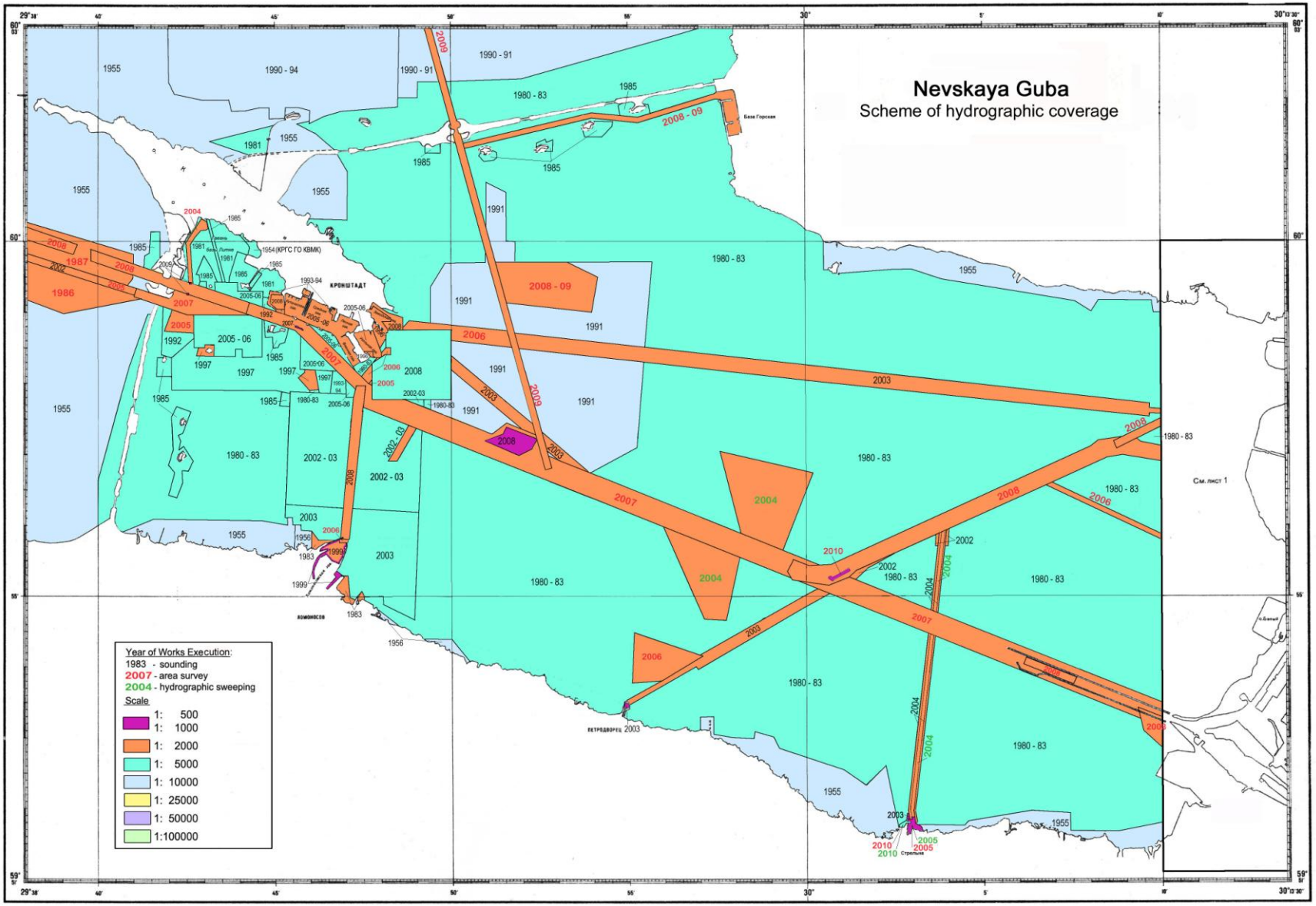
Water Area of Russia - 23 460 sq.km. Depth < 200 m - 23 460 sq.km.

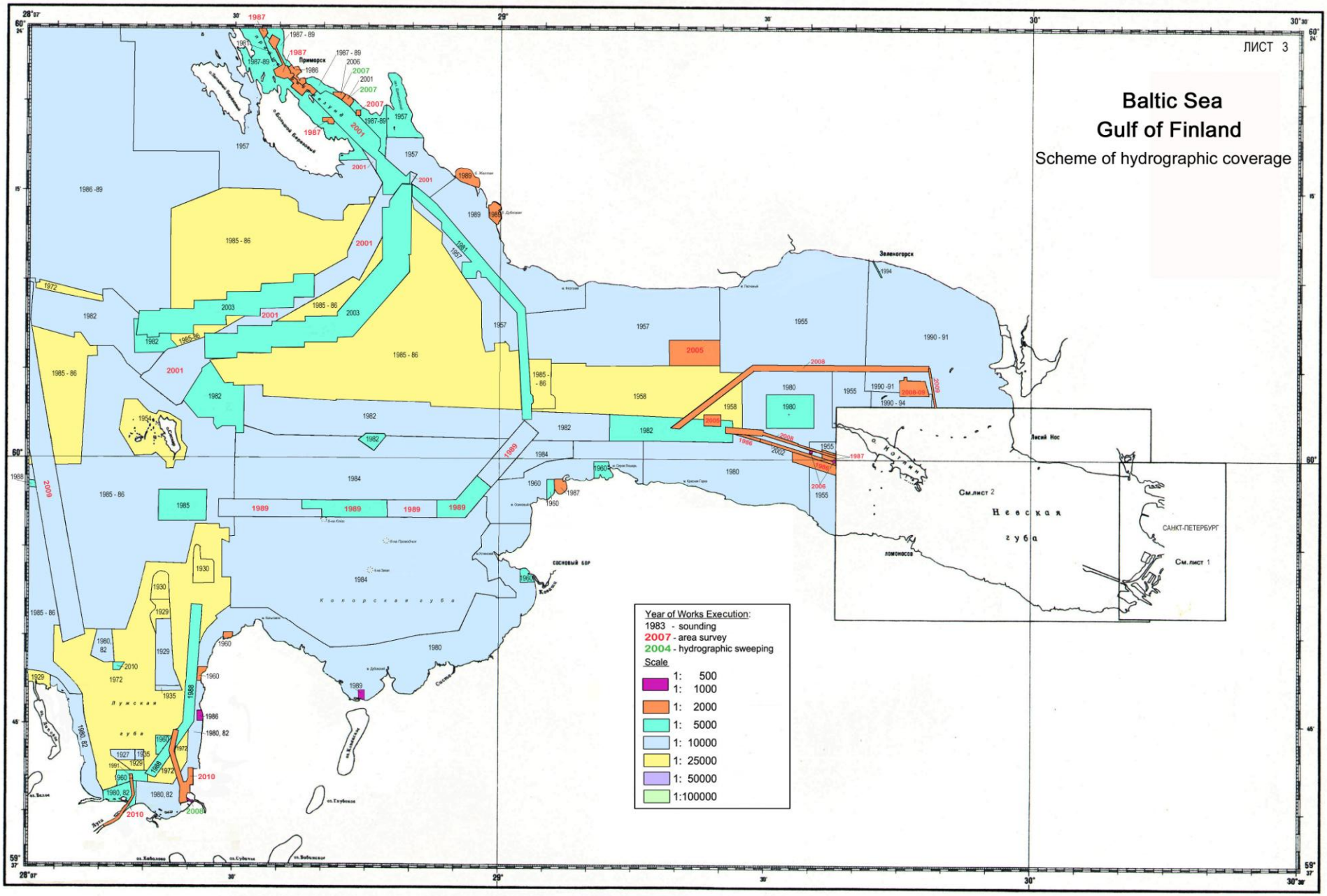
Gulf of Finland - 11 990 sq.km.

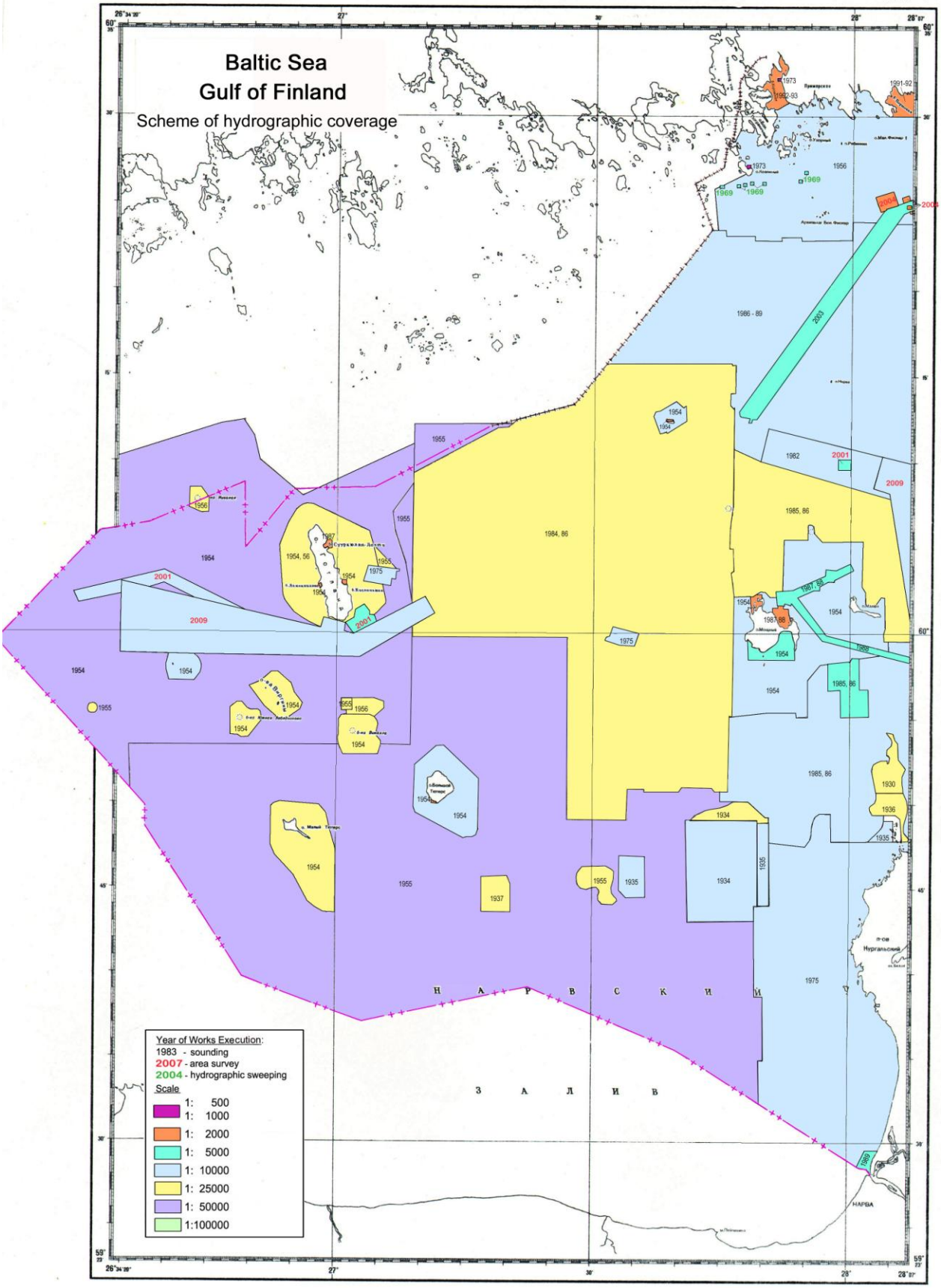
Southern Part of the Baltic Sea - 11 470 sq.km.

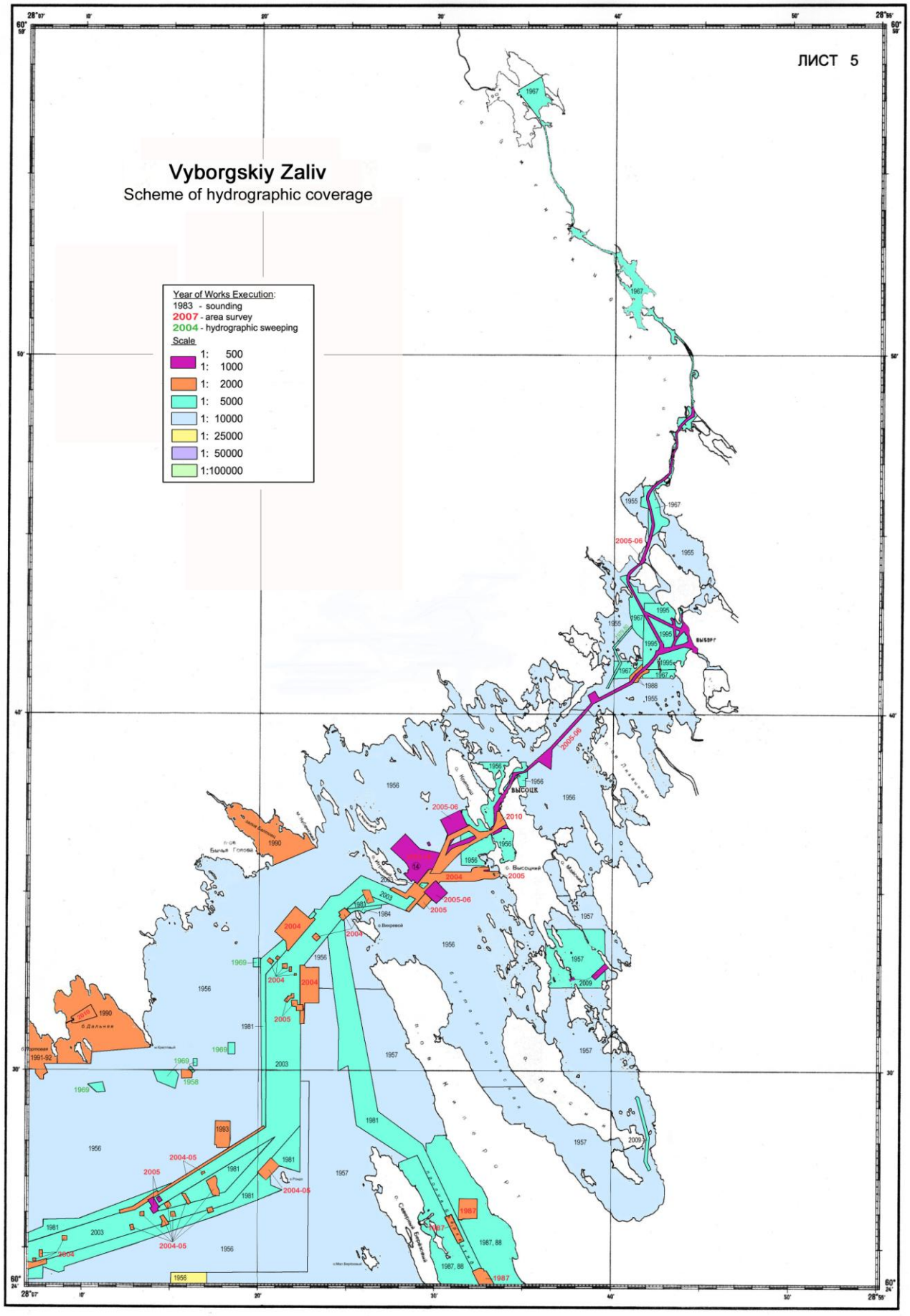
Depth Range	Adequate Survey, %	Repeated Survey is required, %	Systematic Survey is absent, %
Depths < 200 m Depths > 200 m	99.7	0.3	—

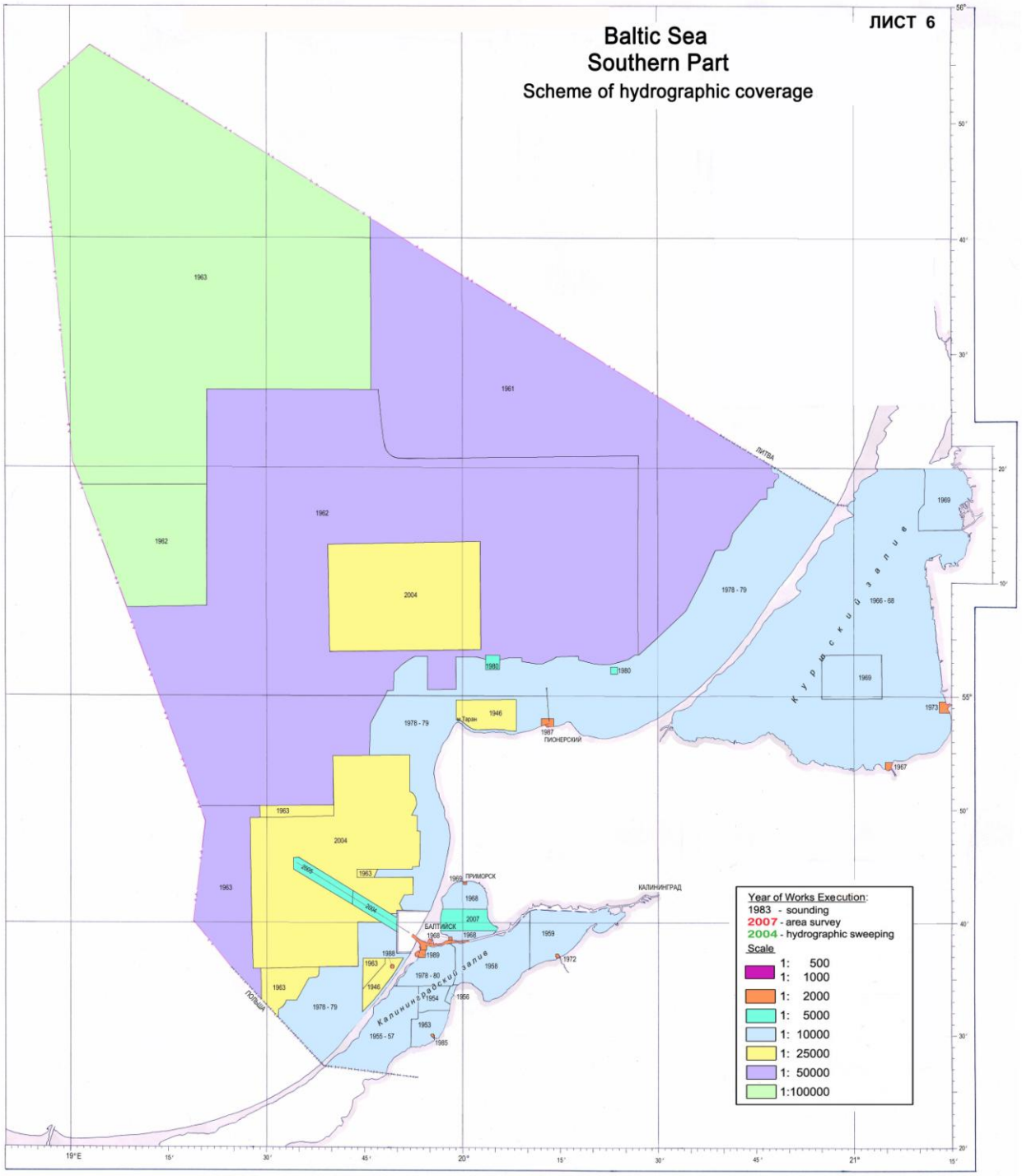

Year of Works Execution:
1983 - sounding
2007 - area survey
2004 - hydrographic sweeping
Scale
1: 500
1: 1000
1: 2000
1: 5000
1: 10000
1: 25000
1: 50000
1:100000
Морской Порт Санкт-Петербург
Невская губа
о. Елагин
о. Крестовский
о. Декабристов
Васильевский остров
о. Белый
Большая Невка
Средняя Невка
Малая Невка
Большая Нева
Морской канал
Морской Порт Санкт-Петербург
Scheme of hydrographic coverage


Nevskaya Guba
Scheme of hydrographic coverage
Year of Works Execution:
1983 - sounding
2007 - area survey
2004 - hydrographic sweeping
Scale
1: 500
1: 1000
1: 2000
1: 5000
1: 10000
1: 25000
1: 50000
1:100000
КРОНШТАДТ
ЛОМОНОСОВ
ПЕТРОДВОРЕЦ
См. лист 1


ЛИСТ 3
Baltic Sea
Gulf of Finland
Scheme of hydrographic coverage
Year of Works Execution:
1983 - sounding
2007 - area survey
2004 - hydrographic sweeping
Scale
1: 500
1: 1000
1: 2000
1: 5000
1: 10000
1: 25000
1: 50000
1:100000
См.лист 2
См.лист 1
Невская губа
САНКТ-ПЕТЕРБУРГ
Ломоносов
Сосновый Бор
Зеленогорск
Лисий Нос
Копорская губа
Лужская губа


Baltic Sea
Gulf of Finland
Scheme of hydrographic coverage
Year of Works Execution:
1983 - sounding
2007 - area survey
2004 - hydrographic sweeping
Scale
1: 500
1: 1000
1: 2000
1: 5000
1: 10000
1: 25000
1: 50000
1:100000
НАРВА

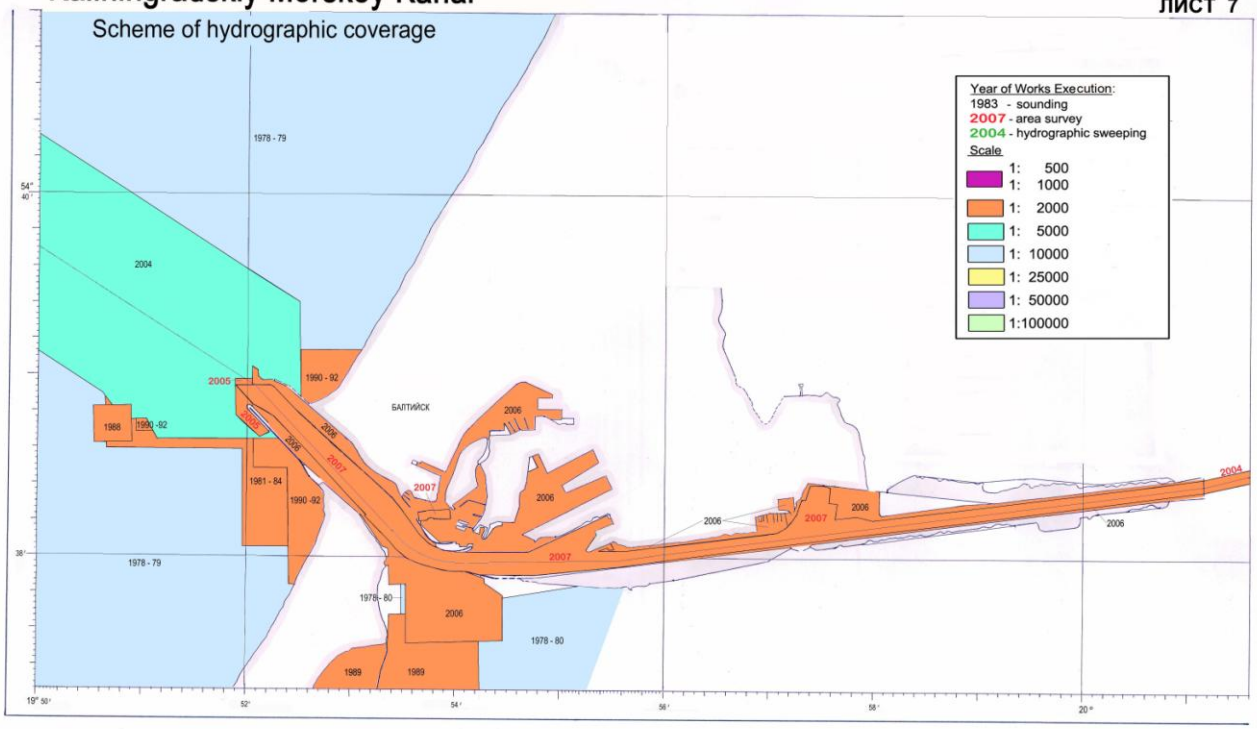

ЛИСТ 5
Vyborgskiy Zaliv
Scheme of hydrographic coverage
Year of Works Execution:
1983 - sounding
2007 - area survey
2004 - hydrographic sweeping
Scale
1: 500
1: 1000
1: 2000
1: 5000
1: 10000
1: 25000
1: 50000
1:100000
ВЫСОЦК
28°07'
28°55'
60° 24'
60° 09'

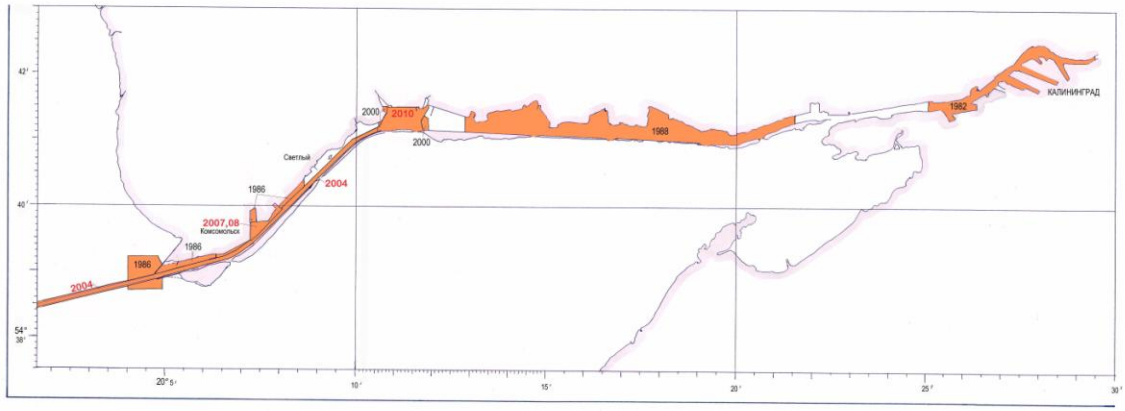

ЛИСТ 6
Baltic Sea
Southern Part
Scheme of hydrographic coverage
Year of Works Execution:
1983 - sounding
2007 - area survey
2004 - hydrographic sweeping
Scale
1: 500
1: 1000
1: 2000
1: 5000
1: 10000
1: 25000
1: 50000
1:100000
ЛИТВА
ПОЛЬША
ПРИМОРСК
БАЛТИЙСК
КАЛИНИНГРАД
ПИОНЕРСКИЙ
Калининградский залив
Куршский залив
19° E

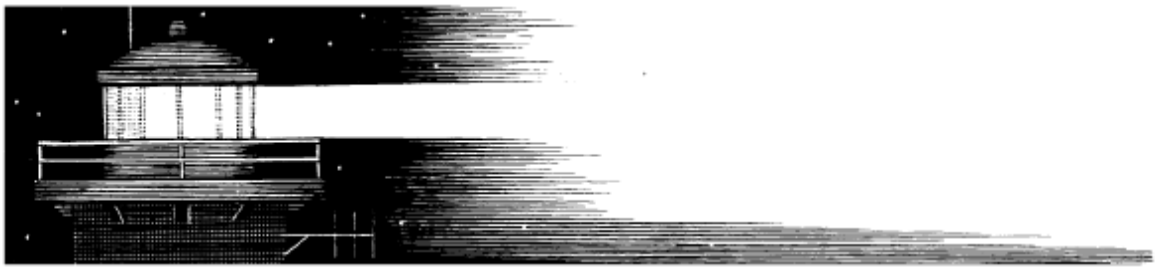
Kaliningradskiy Morskoy Kanal

ЛИСТ 7

Scheme of hydrographic coverage







ENCs OF THE BALTIC SEA

The DNO of the RF issues ENCs based on S-57 standard. 32 ENCs for the area of the Baltic Sea have been issued and their distribution is in progress. All these ENCs passed testing in Regional ENC Centers (IC-ENC and Primar Stavanger) and they are updated by mean of issuance of updating sets based on Notices to Mariners. It is possible to buy ENC set of the DNO of the RF production by two means:

— directly through Regional Centre Primar Stavanger (site: www.primar.org)

— through official distributor of ENCs of the DNO of the RF production — Transas Co.

At present work on creation of ENC set for transfer route Port Sankt-Peterburg-Port Kaliningrad is in progress.

Number of cell	Name (area)	Scale 1:
Southern Part of the Baltic Sea		
RU4NDJT0		45000
RU4NDJS8	Southern Part Approaches to Baltiysk and Kaliningrad	45000
RU4NDJS9	Southern Part Approaches to Kaliningradskiy Maritime Canal	45000
RU4NEJS0	Mys Gvardeyskiy to Mys Taran	45000
RU4NEK00	South Part Rybachiy Lighthouse to Zelenogradsk	45000
RU4NEK10	South Part of Kurshskiy Gulf	45000
RU5NDJT0	Southern Part Krasnoflotskaya Harbour	4000
RU5NDJT1	South Part Baltiysk Port Entrance to Kaliningradskiy Maritime Canal	4000
RU5NDJT2	Southern Part Kaliningradskiy Maritime Canal Distant mark 24 to Komsomol'skiy Bend	4000
RU5NDK00	Ushakovo Harbour	4000
RU5NDK01	South Part Kaliningradskiy Maritime Canal Izhevskiy Bend	4000
RU5NDK02	South Part Kaliningradskiy Maritime Canal Komsomol'skiy Bend	4000
RU5NEJT0	Kaliningradskiy Gulf North Part of Primorskaya Bay	8000
RU5NEK01	South Part Kaliningradskiy Maritime Canal Vzmor'ye Harbour to Pregolya River Mouth	4000
RU5NEK10	South Part Kaliningradskiy Maritime Canal Mouth of Pregolya River to Port Kaliningrad	4000
Eastern Part of the Baltic Sea		
RU4O1KP0	Approaches to Vysotsk and Vyborg	22000
RU4O1KP9	N Part of B'yorkyozund Strait and Klyuchevskaya Bay	22000
RU4O1KN0	Area of Zelenogorsk - Sestroretsk - Fort Krasnoarmeyskiy	22000
RU4O1KO9	Ruonninmatala Bank to Baltiyets Bay	22000
RU4NTKO8	Seskar Island to Stirsudden Point	22000
RU5NTKL0	Bol'shoy Tyuters Island Harbour	8000
RU5NTKP1	Luzhskaya Guba. Old Harbour Ruch'i	4000
RU5NTKP0	Luzhskaya Inlet. Novaya Gavan' Ruch'i	8000
RU5NTKT0	Bol`shoy Kronshtadtskiy Roads	4000
RU5NTKT1	Malyy Kronshtadtskiy Roads	4000
RU5NTKT2	Lomonosovskaya Harbour to Bol`shoy Kronshtadtskiy Roads	12000
RU5NTKT7	Nevskaya Inlet. Strel'na Harbour and Approaches	12000
RU5NTL00	Nevskaya Inlet. Northern Part of Neva River Delta	12000
RU5NTL01	Nevskaya Inlet. Bol'shoy Port Sankt-Peterburg	8000
RU5O0KK0	Gogland Island. Suurkyulan-Lakhti Bay	8000
RU5O0KK1	Gogland Island. Limonnikov Bay	8000
RU5O0KL0	Gogland Island. Kiyskinkyulya Bay	8000
RU5O0KN0	Moshchnyy Island. Rybach'ya Bay	8000
RU5O0KP0	B'yorkezund Gat. Oil Terminal of Port Primorsk and Approaches	8000

RU5O2KP0	Approach to Saymenskiy Canal Dubovyy Light-Beacon to Island Lavola	8000
RU5O2KQ0	Approach to Saymenskiy Canal Zashchitnaya Bay to Brusnichnoye Lock	8000
RU6NTKT0	Lomonosovskaya Harbour	2000
RU6O0KQ0	B'yorkezund Gat. Oil Terminal of Port Primorsk. Berths N 8,9,10	4000
RU6O0KQ1	B'yorkezund Gat. Oil Terminal of Port Primorsk Berths N 1,2,3,4,5,6,7	4000

INTERNATIONAL CHARTS

The DNO of the RF MD started to publish a series of International Charts in accordance with decision of 4th BSHC Conference (Rostock, 1990) and in accordance with the list of medium and large scale International Charts which included 23 numbers of nautical charts.

In the course of realization of this plan for creation of International Charts the DNO of the RF ensured charts for the zone of its responsibility on scales 1:5000 to 1:500 000, among them Sankt-Peterburg Maritime Port (sc 1:10 000), Approach Channel to Saimaa Canal (sc 1:5000), Approaches to ports Vyborg and Vysotsk (sc 1:25 000), Vnutrenniy Vysotskiy Roads (sc 1:20 000), Deep-Water Fairway from Sankt-Peterburg to Krasnaya Gorka (sc 1:25 000), and also the whole Kaliningradskiy Maritime Channel and Approaches (sc 1:5000 and 1:50 000).

In the process of publication International numbers of charts were updated and corresponding update was forwarded to International Charts Catalogue. By present time the DNO of the RF MD completely fulfilled its assumed obligations to publish International Charts of the Gulf of Finland and the SE Part of the Baltic Sea. In last years republication of these charts was only in progress.

In the period from the 15-th BSHC Conference (September 2010) to the 16-th Conference (September 2011) the DNO of the RF MD reissued 10 numbers of International Charts for its zone of responsibility. Following is the full list of International Charts of the Russia zone of responsibility as of August 2012.

LIST
OF INTERNATIONAL CHARTS ISSUED WITHIN THE FRAMEWORK OF THE BALTIC SEA HYDROGRAPHIC COMMISSION

No	INT number	Produ-cer number	Title	Scale	Latest New edition	Date of print	Estimated date of new edition	Note
1	2	3	4	5	6	7	8	9
1	1023	21001	Baltic Sea Gulf of Finland	500 000	2007	2007		
2	1213	22060	Baltic Sea Western part of Gulf of Finland	250 000	2011	2011		
3	1214	22061	Baltic Sea Eastern part of Gulf of Finland	250 000	2010	2010		
4	1215	22062	Baltic Sea Gulf of Riga	250 000	2009	2010		
5	1216	22058	Baltic Sea. Middle Part. Irbenskiy strait to Gotland	250 000	2010	2010		
6	1217	22057	Baltic Sea. Middle Part. Pavilosta to Klapeda	250 000	2008	2008		
7	1255	25006	Baltic Sea Gulf of Finland Ostrov Rondo to Ostrov Sommers	50 000	2007	2007		
8	1256	1132	Baltic Sea Gulf of Finland Bukhta Dalnyaya	10 000	1994	1994		
9	1257	28007	Baltic Sea Vyborgskiy zaliv Approaches to Vysotsk and Vyborg	25 000	2008	2008		
10	1258	28008	Baltic Sea Gulf of Finland. Povorotnyy Lighthouse to ostrov Malyy Vysotskiy	10 000	2008	2008		
			Insert A Approach channel to Lukoil-II Oil Terminal	5 000				
11	1259	28010	Baltic Sea Vyborgskiy Zaliv Approaches to Saimaa Canal Dubovyy Light - Beacon to Ostrov Lavola	12 500	2008	2008		
12	1260	28011	Baltic Sea Vyborgskiy Zaliv Approaches to Saimaa Canal Buhta Zashchitnaya to Brusnichnoye Lock	5 000	2008	2008		
13	1261	25004	Baltic Sea Gulf of Finland Kronshtadt to Krasnaya Gorka	25 000	2009	2009	IV q - 2011	
14	1262	25002	Baltic Sea Gulf of Finland Sankt-Peterburg to Kronshtadt	25 000	2006	2006	IV q - 2011	
15	1263	27047	Sankt-Peterburg Seaport	10 000	2009	2010		
16	1280	25052	South part of Baltic Sea Approaches to Kaliningradskiy Maritime channel	50 000	2007	2007		
17	1282	27001	Southern part of Baltic Sea Port Baltiysk Entrance to Kaliningradskiy Maritime channel	5 000	2009	2009		
18	1283	27002	Southern part of Baltic Sea Kaliningradskiy Maritime channel. Picket 24 to Komsomolskiy Turn	5 000	2009	2009		
19	1284	27003	Southern part of Baltic Sea Kaliningradskiy Maritime channel Komsomolskiy Turn	5 000	2006	2007		
20	1285	27004	Southern part of Baltic Sea Kaliningradskiy Maritime channel Turn Izhevskiy	5 000	2007	2007	IV q - 2011	
21	1286	27005	South part of Baltic Sea Kaliningradskiy Maritime channel Gavan' Vzmorye to Mouth of Reka Pregolya	5 000	2006	2006		
22	1287	27006	South part of Baltic Sea Kaliningradskiy Maritime channel Mouth of Reka Pregolya to Port Kaliningrad	5 000	2007	2008		

NATIONAL PAPER CHARTS

For waters under jurisdiction of Russia in the Baltic Sea - the Gulf of Finland, Vyborgskiy Zaliv and Kaliningradskiy Zaliv - the DNO of the RF MD has a collection of National paper charts, which includes 76 units.

With account of scales it is shown by the following way:

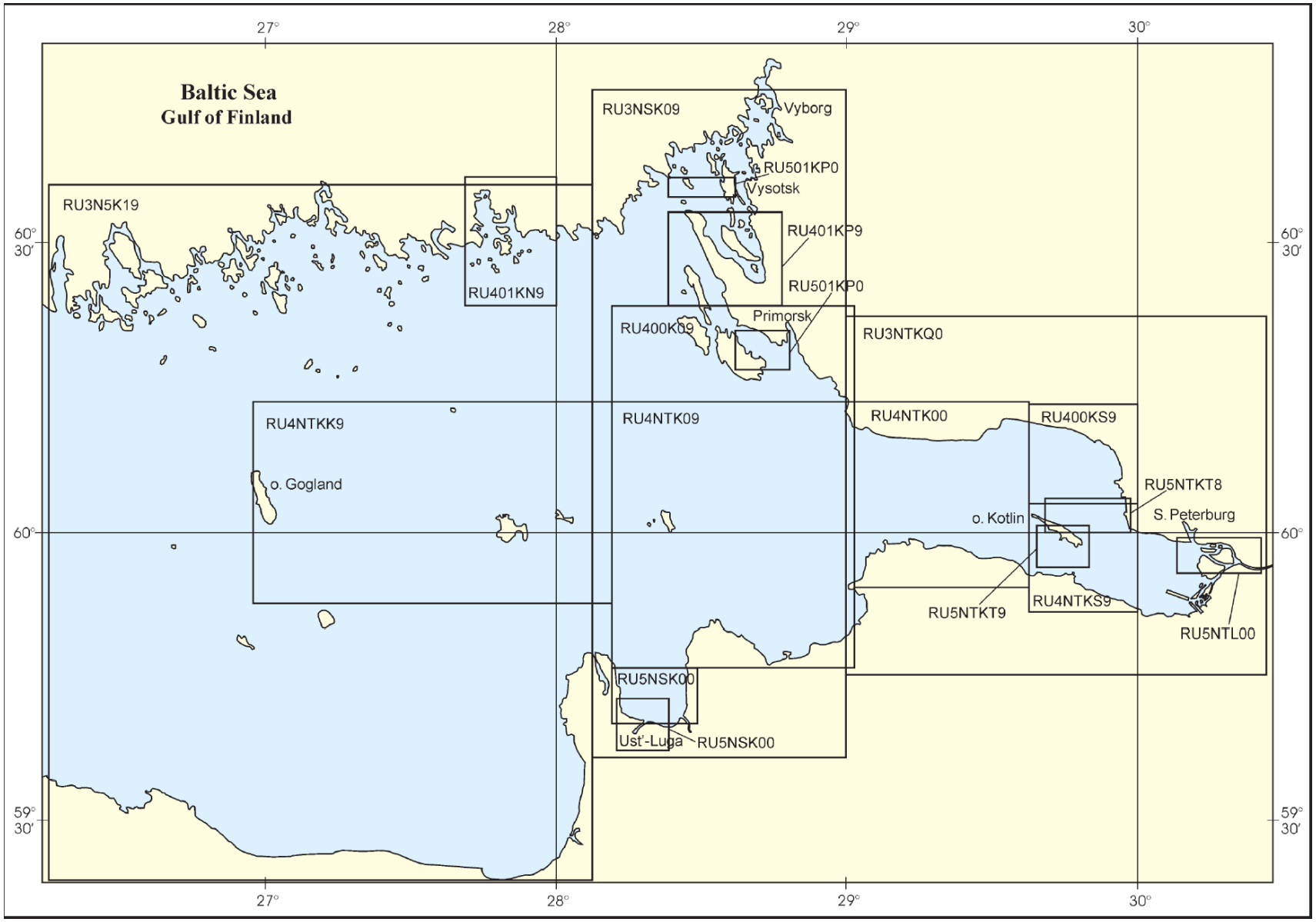
	Gulf of Finland and Vyborgskiy Zaliv	Kaliningradskiy Zaliv
1:250 000	1	
1:200 000	2	
1:100 000	5	4
1:75 000-1:50 0000	9	6
1:25 000 and larger	35	12

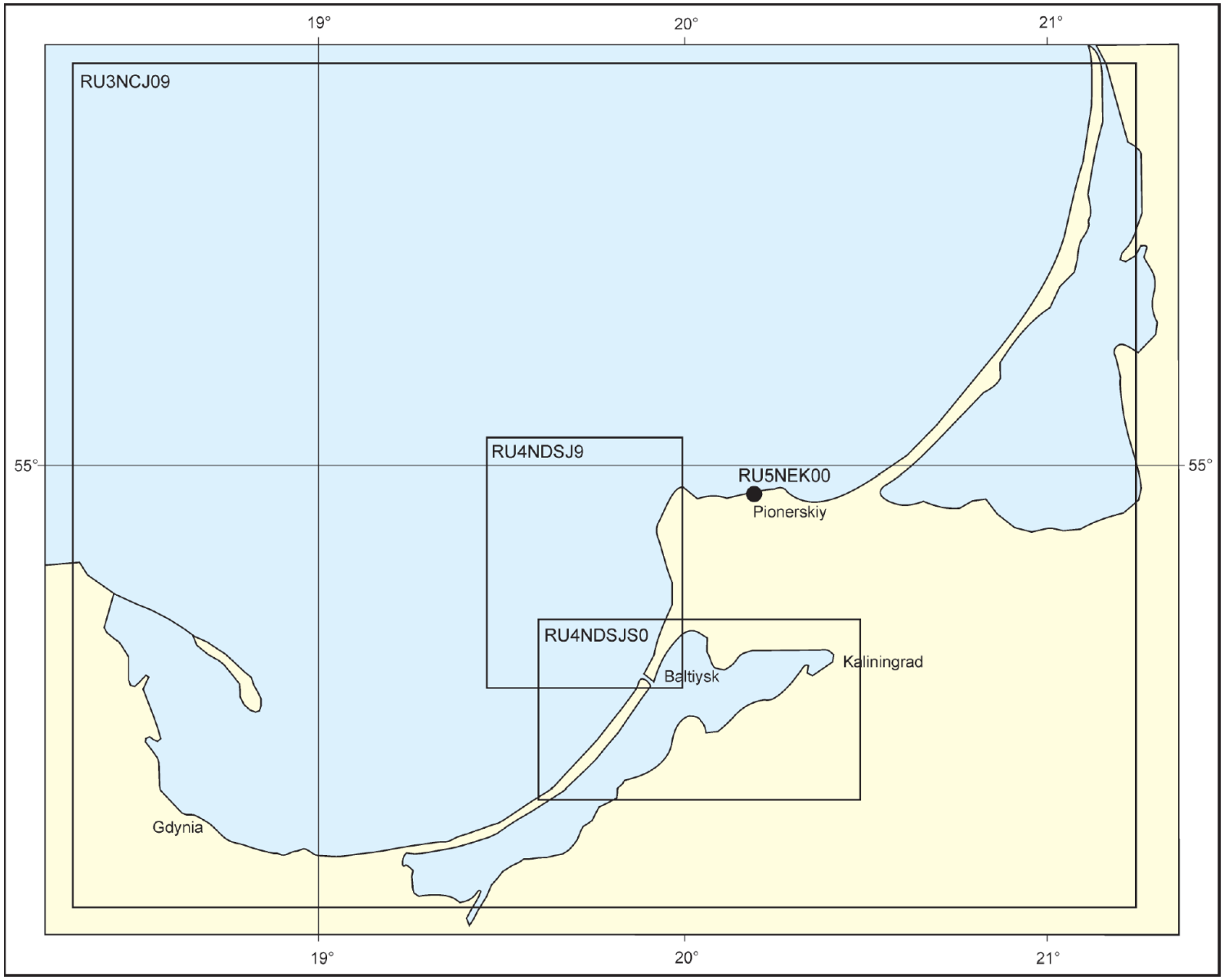
In recent years the DNO of the RF MD has published 2 new charts:

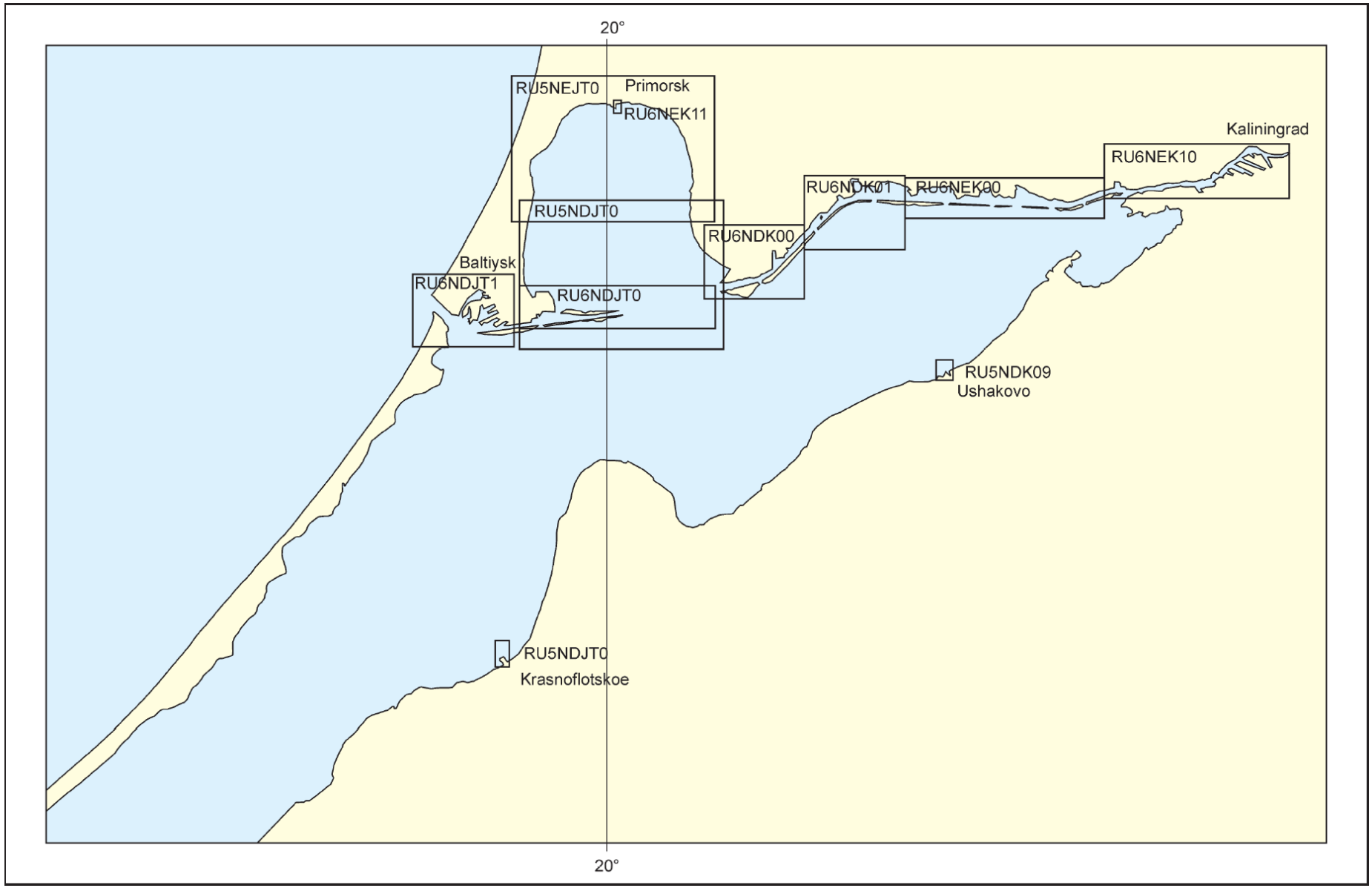
27050. Gulf of Finland. Gavan' Strel'na and Approaches, scale 1:12 500, 1st Edition, 2009. Insert: Gavan' Strel'na, scale 1:3000.

92600. Reference-information chart. Eastern Part of the Gulf of Finland, scale 1:200 000, 1st Edition, 11 November 2009.

As new materials become available the whole collection is reissued.

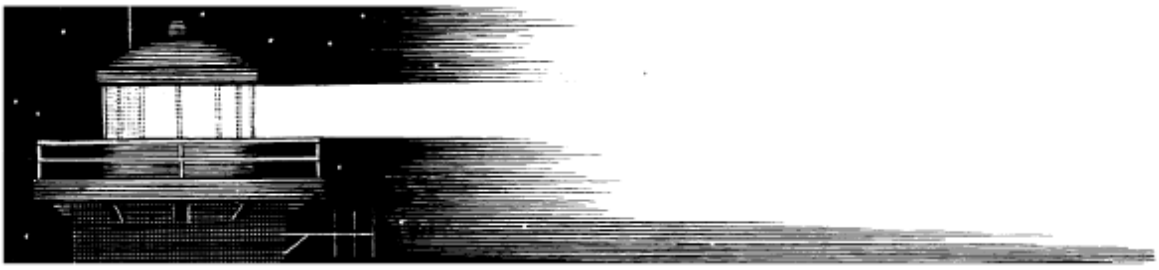

Baltic Sea
Gulf of Finland
27°
28°
29°
30°
60° 30′
60°
59° 30′
RU3N5K19
RU401KN9
RU3NSK09
Vyborg
RU501KP0
Vysotsk
RU401KP9
RU501KP0
Primorsk
RU400K09
RU3NTKQ0
RU4NTKK9
o. Gogland
RU4NTK09
RU4NTK00
RU400KS9
RU5NTKT8
S. Peterburg
o. Kotlin
RU5NTKT9
RU4NTKS9
RU5NTL00
RU5NSK00
Ust'-Luga
RU5NSK00


19°
20°
21°
RU3NCJ09
55°
RU4NDSJ9
RU5NEK00
Pionerskiy
RU4NDSJS0
Baltiysk
Kaliningrad
Gdynia
55°
19°
20°
21°


20°
RU5NEJT0
Primorsk
RU6NEK11
Kaliningrad
RU6NEK10
RU6NDK01
RU6NEK00
RU5NDJT0
RU6NDK00
Baltiysk
RU6NDJT1
RU6NDJT0
RU5NDK09
Ushakovo
RU5NDJT0
Krasnoflotskoe
20°

GUIDES AND PUBLICATIONS TO NAVIGATE IN THE BALTIC SEA

Title, number of guide or publication	Year of edition
1	2
The Baltic Sea Pilot. Common review (№ 1200)	1986
The Baltic Sea Pilot. Part I. (№ 1202)	2007
The Baltic Sea Pilot. Part II. (№ 1203)	1993
The Baltic Sea Pilot. Part III. (№ 1204.1) Printing 1	1995
The Baltic Sea Pilot. Part III. (№ 1204.2) Printing 2	1995
The Baltic Sea Pilot. Part IV. (№ 1205)	2002
The Baltic Sea Pilot. Part V. (№ 1207) Printing 1	1995
The Baltic Sea Pilot. Part V. (№ 1208) Printing 2	1993
The Skagerrak Pilot.(№ 1209) Printing 1	1997
The Skagerrak Pilot. (№ 1210) Printing 2	1997
The Onezhskoye Ozero Pilot (№ 1001)	1999
The Ladozhskoye Ozero Pilot (№ 1002)	1999
List of Lights and Beacons of the Baltic Sea Coasts of Russia, Estonia, Latvia and Lithuania (№ 2201)	2001
List of Lights of the Baltic Sea. Part I. The North Coast of the Gulf of Finland and the East Coast of the Gulf of Bothnia (№ 2202)	2000
List of Lights of the Baltic Sea. Part II. The East Coast of Scandinavian Peninsula (№	2000
List of Lights of the Baltic Sea. Part III. The South Coast of the Sea (№ 2204)	2001
List of Lights of the South Coast of Scandinavian Peninsula, the Sound, Great Belt, Little Belt, Kattegat and Internal Water Route of Sweden (№ 2205)	2003
List of Lights of Skagerrak (№ 2206)	2006
List of Radio Signals of Arctic and Atlantic Oceans (№ 3001) 20. List of Radio Signals of the European Part of Russia (№ 3003)	2005
Transmission Schedules of navigational warnings and hydrometeorological messages by radiostations of Arctic and Atlantic Oceans (№ 3011)	2006
List of Lights and Beacons of Onezhskoye Ozero (№ 2001) 23. List of Lights and Beacons of Ladozhskoye Ozero (№ 2002)	2005
Navigational Regime in the Baltic Sea and Ladozhskoye Ozero (Summary Description) (№ 4241)	2007



REFERENCE ON

THE OPERATIVE NAVIGATIONAL INFORMATION SYSTEM

AT THE BALTIC SEA

The Baltic Sea water area territorially belongs to the NAVAREA 1 of the World-Wide Navigational Warning Service (WWNWS) — the coordinator is the United Kingdom — and it has been singled out as a separate subarea. The subarea coordinator's duties have been entrusted with Sweden. National coordinators within the WWNWS in the subarea are: Sweden, Finland, Russian Federation, Estonia, Latvia, Lithuania, Poland, Germany and Denmark.

The Russian Federation, performing its functions as the WWNWS national coordinator, announces the coastal warnings (PRIPs) for PRIP Kaliningrad region — in the SE part of the Baltic Sea — from the boundary with Poland to the boundary with Lithuania, and PRIP Peter-burg region — in the Gulf of Finland — from the boundary with Estonia to the boundary with Finland.

In the interest of provision of the Russian Navy ships and vessels and the civil agency vessels with the navigational information at the Baltic Sea traditional structure of the national system of navigational warnings has been retained. The key link in the chain of navigational information announcement is the Information Collection and Processing Unit (ICPU) of BSF HS. Navigational information from the NAVAREA 1 area coordinator, national coordinators, reports from mariners, on the basic of which navigational warnings NAVIP, NAVAREA in Russian are compiled, are received in the ICPU. According to the data of domestic sources PRIPs for the Russian Federation coastal waters

are compiled.

These warnings are sent to the BSF communication centre and radiostation Kaliningrad of the RF Federal Agency of Fisheries to broadcast them in Russian in the interest of provision of the Russian Navy ships and vessels and the civil agency vessels with the navigational information at the Baltic Sea.

At the Baltic Sea four radiostations Bjuröklubb, Gislövshammar, Grimeton (Sweden) and Tallinn (Estonia) broadcast coastal warnings (PRIPs) within the NAVTEX service. They provide complete coverage of the water area by zones of positive reception. The reception onboard the vessels is carried out in the mode of direct printing in English by special receivers.

PARTICIPATION OF THE DNO WITHIN HELCOM PROJECT

All hydrographic services of the Baltic Sea, among them the DNO of the RF MD, actively participated in elaboration of agreed plan of systematically recurrent surveys of main navigable routes and ports of the Baltic Sea and the Gulf of Finland to ensure that safety of navigation was not exposed to risk owing to inadequate initial information. Realization of this plan is performed within HELCOM project — Commission for the Protection of the Baltic Sea Area Environment.

Waters of the Baltic Sea under jurisdiction of Russia include six main ports: Sankt-Peterburg, Vyborg, Primorsk, Vysotsk, Ust'-Luga and Kaliningrad.

State of coverage by hydrographic survey of water areas of these ports, recommended tracks and approach channels to them was thoroughly analyzed by the Russian Hydrographic Office. Analysis showed that hydrographic survey basically met modern requirements. Nevertheless, three stretches (recommended track from Port Vysotsk to Port Vyborg, Kaliningradskiy maritime channel, approaches to Port Ust'-Luga) were revealed which required the repeated survey.

The DNO of the RF took decision to start works at all these stretches and at present all surveys are performed in recommended track from Port Vysotsk to Port Vyborg and Kaliningradskiy maritime channel. In approaches to Port Ust'-Luga works are not completely finished.

Due to the fact that there are no NAVTEX stations at the Baltic Sea in Russia to transmit PRIP texts in this format, the announced warnings of the ICPU of the BSF HS are transmitted by means of electronic mail to the Navy Charts Division Bureau of Information Collection and Processing (BICP). From here, after analysis, they are transmitted to Sweden and there through subarea coordinator to the service of NAVTEX transmissions coordination for the Baltic region (UFS — Baltico) where they are forwarded for transmission to the relevant

station. PRIP Kaliningrad warnings are broadcast within NAVTEX service by the Grimeton radio station (Sweden), PRIP Peterburg — by the Tallinn radio station. Every week the coordinator of the Baltic Sea subarea distributes to the address of national coordinators the bulletins of the PRIPs broadcast for the Baltic Sea.

Besides, in Notice to Mariners Department of the Navy Charts Division the information of national coordinators taken from electronic pages of corresponding hydrographic Websites is analyzed with a view to update navigational information operatively. At present national coordinators of all nations but Russia have hydrographic Websites of their own. These sites were paid particular attention by IHO commission on distribution of radio navigational warnings for last years. For this reason, although the existing system of supply of the emergency navigational information at the Baltic Sea meets the requirements of the WWNWS guiding documents and ensures timely notification of the Navy ships and vessels and the civil agency vessels about the changes of the navigational conditions and regime at the Black Sea it should be developed additionally and it should be done by Russian side, namely.

In particular, it refers to such points as development and implementation of national hydrographic Website and long ago planned building of NAVTEX station in St Petersburg.

PARTICIPATION OF THE DNO OF THE RF MD IN IOC REGIONAL PROJECTS ON CHARTING OF THE WORLD OCEAN

The DNO of the RF MD attaches much importance to Intergovernmental Oceanographic Commission (IOC) and International Hydrographic Organization (IHO) activities in regional charting of the World Ocean. It is confirmed by the fact that our service contributed to the project "General bathymetric chart of the oceans" and regional projects:

— International Bathymetric Chart of the Arctic Ocean (IBCAO)

— International Bathymetric Chart of the Mediterranian (IBCM)

— International Bathymetric Chart of the Western Pacific Ocean (IBCWPO)

— International Bathymetric Chart of the Western Indian Ocean (IBCWIO)

— International Bathymetric Chart of the Southern Ocean (IBCSO)

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